

Additional File 1

Titel: Loss of ICAM-1 signaling induces psoriasin (S100A7) and MUC1 in mammary epithelial cells

Journal: Breast Cancer Research and Treatment

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The immunohistochemistry expression data of MUC1, ICAM-1 and psoriasin in a set of DCIS cases (n= 11) .

Patient No.	DCIS grade (1,2,3) and type	MUC1 (1:500)	ICAM-1 (1:400)	Psoriasin (1:200)
1	2 (papillary and micropapillary type)	<u>Normal tissue</u> : weak positive staining. <u>Tumor</u> : positive (strong cytoplasmic staining).	<u>Normal tissue</u> : weak positive staining in the epithelium but even in the endothelium of vessels. <u>Tumor</u> : positive (strong membrane staining).	<u>Normal tissue</u> : negative or weak positive staining in the epithelium; negative in the endothelium of vessels. <u>Tumor</u> : extremely strong positive staining (both cytoplasmic and membrane staining).
2	2 (cribriform type) and 3 (comedo-type)	<u>Normal tissue</u> : positive (moderate) staining. <u>Tumor</u> : positive staining in grade 2 (moderate to strong cytoplasmic staining), negative in grade 3 (comedo type).	<u>Normal tissue</u> : weak positive staining in the epithelium. Positive staining even in the myoepithelial cells. <u>Tumor</u> : weak positive staining in grade 2 and minimal positive cytoplasmic staining in grade 3.	<u>Normal tissue</u> : negative. <u>Tumor</u> : negative.
3	2 (papillary)	<u>Normal tissue</u> : positive (strong to moderate) staining. <u>Tumor</u> : strong positive staining.	<u>Normal tissue</u> : moderate positive membrane staining. <u>Tumor</u> : moderate positive staining mainly cytoplasmic.	<u>Normal tissue</u> : negative. <u>Tumor</u> : mostly negative but in <10% of the cells extremely strong staining.
4	2 (solid) and 3 (comedo)	n.d	<u>Normal tissue</u> : negative.	<u>Normal tissue</u> : negative.

			<u>Tumor</u> : mostly negative, but minimal moderate membrane staining focally.	<u>Tumor</u> : mostly negative but in <10% of the cells extremely strong positive staining.
5	2 (cribriform)	<u>Tumor</u> : strong positive staining.	<u>Normal tissue</u> : moderate positive membrane staining. Negative in apocrine metaplasia. <u>Tumor</u> : moderate positive membrane staining.	<u>Normal tissue</u> : negative but positive staining in apocrine metaplasia. <u>Tumor</u> : negative.
6	2 (micropapillary, papillary) and 3 (papillary, comedo)	<u>Normal tissue</u> : weak positive staining. <u>Tumor</u> : strong positive staining.	<u>Normal tissue</u> : moderate positive membrane staining. <u>Tumor</u> : moderate to strong positive membrane staining.	<u>Normal tissue</u> : negative. <u>Tumor</u> : mostly negative but focally extremely strong cytoplasmic staining.
7	3 (cribriform and comedo)	<u>Normal tissue</u> : none in the slide. <u>Tumor</u> : strong positive staining.	<u>Normal tissue</u> : moderate positive staining. <u>Tumor</u> : strong positive membrane staining.	<u>Normal tissue</u> : weak positive cytoplasmic staining. <u>Tumor</u> : minimal positive cytoplasmic staining.
8	2 (solid, cribriform) and 3 (comedo)	<u>Normal tissue</u> : positive (varying intensity from weak to strong) staining. <u>Tumor</u> : mostly strong positive staining but there are negative areas and even moderately stained areas.	<u>Normal tissue</u> : negative. <u>Tumor</u> : mostly negative, focally weak to moderate positive membrane staining.	<u>Normal tissue</u> : negative. <u>Tumor</u> : negative.
9	3 (cribriform and comedo)	<u>Normal tissue</u> : positive (weak to moderate) staining. <u>Tumor</u> : strong positive staining.	<u>Normal tissue</u> : negative. <u>Tumor</u> : moderate positive membrane staining.	<u>Normal tissue</u> : negative. <u>Tumor</u> : varying intensity: from minimal to extremely strong positive cytoplasmic staining.
10	2 (cribriform and micropapillary) and 3 (comedo type)	<u>Normal tissue</u> : weak positive staining. <u>Tumor</u> : positive (moderate to strong) staining.	<u>Normal tissue</u> : moderate positive staining in the epithelium and strong positive staining in the endothelium of vessels. <u>Tumor</u> : focally moderate to strong positive membrane staining.	<u>Normal tissue</u> : negative. <u>Tumor</u> : strong positive cytoplasmic staining.
11	1 and 2 (micropapillary)	<u>Normal tissue</u> : positive (moderate) staining. <u>Tumor</u> : strong positive staining.	<u>Normal tissue</u> : moderate positive membrane staining. <u>Tumor</u> : moderate positive membrane staining.	<u>Normal tissue</u> : negative. <u>Tumor</u> : strong to extremely strong positive cytoplasmic staining.